504166554 01/06/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 EPAS ID: PAT4213231 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
PIERRE HELLIER	09/09/2016
QUANG KHANH NGOC DUONG	09/30/2016
VALERIE ALLIE	09/30/2016
PHILIPPE LEYENDECKER	09/30/2016

RECEIVING PARTY DATA

Name:	THOMSON LICENSING
Street Address:	1 RUE JEANNE D'ARC
City:	ISSY LES MOULINEAUX
State/Country:	FRANCE
Postal Code:	92130

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	15278664	

CORRESPONDENCE DATA

Fax Number: (609)734-6888

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 609-734-6817

Email: adele.izzo@technicolor.com

Correspondent Name: BRIAN J. DORINI
Address Line 1: 4 RESEARCH WAY

Address Line 2: 3RD FLOOR

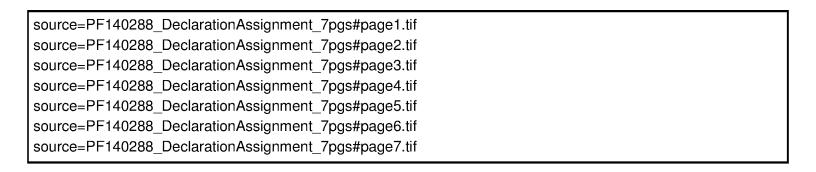
Address Line 4: PRINCETON, NEW JERSEY 08540

ATTORNEY DOCKET NUMBER:	PF140288
NAME OF SUBMITTER:	LILY NEFF
SIGNATURE:	/Lily Neff/
DATE SIGNED:	01/06/2017
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 7

PATENT REEL: 040869 FRAME: 0314

504166554



I believe I am is sought on the in	vention entitled		30 00 000 0 000 000	ter which is claimed and for whic	ch a patent
the specification of	t which was filed on	September 28, 2016 or, if not identifi	as Application S ed here by filing date a	Serial No. <u>15/278664</u> Ind serial number, is attached he	and was amended ereto.
The above-ide I have reviewe amendment referre I acknowledge continuation-in-parand the national oil I hereby decla information and be	entified application wed and understand the dot above. It is the duty to disclose the duty to disclose the applications, mater PCT international fills are that all statement life are believed to be	as made or authorized to e contents of the above information which be ial information which being date of the continual is made herein of my ow e true; and further that	a be made by me. identified specification aterial to patentability is came available between tion-in-part application, in knowledge are true a these statements were	n, including the claims, as amend as defined in 37 CFR 1.56, inclu n the filing date of the prior app	ded by any Iding for Slication 1 1 : willful
ASS	IGNMENT AND	AGREEMENT IN AI	N APPLICATION	FOR LETTERS PATENT	
organized and existor all countries in therefor, and any I agree the rightful oaths, may maintaining patent corporation, its su I agree the inventions and wheverything possibly proper protection I authorize form of protection claim for any applipriority provided I which may hence authorization from I hereby or consent to file or right of the said inventions, and the Protection of Indu I covenant knowledge the right of	sting under the laws and to said inventior divisions, continuation at, when requested, ke all rightful declarats or other forms of coessors, assigns or at I will communicate in requested by said to aid said corporator said inventions in and empower said or for said inventions cation for patent or coy the International I forth be substituted at me. Onsent that a copy of like document which corporation or its stoo claim the aforesaid roperty, as any with Thomson Licen.	of the country of Francis, and all the rights and all the rights and in, reissues and extensic I will, without charge to tions and do all acts who protection for said inventominees. I will, without charge to the said corporation and at its tion, its successors, asson and all countries, or poration, its successor in its or their own name other form of protection convention for the Protection for it, and to invoke and this assignment shall in may be required in an increasion, assigns or not be defined, or by any conversing, its successors, assigns therein conveyed by me	e, its successors, and i privileges under any a privileges under any a part of the privileges under any a part of the privileges and elegater and el	Thomson Licensing, a corporassigns my entire right, title arind all Letters Patent that may that its expense, sign all paper, desirable or convenient for securities and for vesting title their any facts known to me responding any legal proceedings, and gottatives or nominees, to obtain so, to make application for pate in any and all countries and to do by it or them, the benefit of operty, as amended, or by any of priority without further written and formal equivalent of any abose and more particularly in patent or other proper protection by the International Conventiforth be substituted for it. ves, and nominees, that to the any encumbrance, and that I har	nd interest, be granted ars, take all ecuring and reto in said ecting said enerally do or enforce and the right of convention ten or oral assignment, roof of the ion for said ion for the best of my
Signed at	Corsan f	<u>`</u>	Date	of septerser	- 2016
Inventor Name	<u>Pierre Hellier</u> (Signature in Fu	II – No Initials)	- W	(Type or Print)	
Post Office Address	16 rue angleiqu	e du courdray, Thori	gne Fouillard, FRAN	ICE 35235	
1 st Witness	Christel	Chamaret		Jamas	<u>'</u>

DECLARATION

Docket No. PF140288

2rd Witness Not Duane

(Type or Print)

(Signature in Full - No Initials)

As a below named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled

AUDIO EVENT DETECTION FOR AUTOMATIC PLENOPTIC VIDEO REFOCUSING
the specification of which was filed on September 28, 2016 as Application Serial No. 15/278664 and was amended on , or, if not identified here by filing date and serial number, is attached hereto.

The above-identified application was made or authorized to be made by me.

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment of not more than five (5) years, or both, under 18 USC 1001.

ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT

For valuable consideration received, I hereby sell, assign and transfer to Thomson Licensing, a corporation duly organized and existing under the laws of the country of France, its successors, and assigns my entire right, title and interest, for all countries in and to said inventions, and all the rights and privileges under any and all Letters Patent that may be granted

therefor, and any divisions, continuations, reissues and extensions thereof.

I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightful declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for said inventions in any and all countries and for vesting title thereto in said

corporation, its successors, assigns or nominees.

I agree that I will communicate to said corporation or its representatives any facts known to me respecting said inventions and when requested by said corporation and at its expense will testify in any legal proceedings, and generally do everything possible to aid said corporation, its successors, assigns and legal representatives or nominees, to obtain or enforce proper protection for said inventions in any and all countries.

authorize and empower said corporation, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in my/our name, in any and all countries and to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document, which may be required in any country for any purpose and more particularly in proof of the right of the said corporation or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

I covenant with Thomson Licensing, its successors, assigns, legal representatives, and nominees, that to the best of my knowledge the right, title and interest herein conveyed by me are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

<u>Germ-Grignel, France</u> Date 30/09/2016 Signed at Quang Khanh Ngoc Duong Inventor Name (Type or Print) Post Office Address 46 Square Louis Boulanger FRANCE 35700 45 PERVIL FERROCE 1" Witness (Type or Print) (Signature in Full- No Initials)

DECLARATION

Docket No. PF140288

2nd Witness

(Type or Print)

(Signature in Full - No initials)

PATENT

REEL: 040869 FRAME: 0319

DECLARATION

Docket No. PF140288

1	49	а	below	/ named	inventor,	l hereby	declare that:

I believe I am the original inventor or an original joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled

AUDIO EVENT DETECTION FOR AUTOMATIC PLENOPTIC VIDEO REFOCUSING

tember 28, 2016 as Application Serial No. 15/278664 and w , or, if not identified here by filing date and serial number, is attached hereto. and was amended on the specification of which was filed on September 28, 2016

The above-identified application was made or authorized to be made by me.

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment of not more than five (5) years, or both, under 18

ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT

For valuable consideration received, I hereby sell, assign and transfer to Thomson Licensing, a corporation duly organized and existing under the laws of the country of France, its successors, and assigns my entire right, title and interest, for all countries in and to said inventions, and all the rights and privileges under any and all Letters Patent that may be granted

therefor, and any divisions, continuations, reissues and extensions thereof.

I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightful declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for said inventions in any and all countries and for vesting title thereto in said corporation, its successors, assigns or nominees.

I agree that I will communicate to said corporation or its representatives any facts known to me respecting said inventions and when requested by said corporation and at its expense will testify in any legal proceedings, and generally do everything possible to aid said corporation, its successors, assigns and legal representatives or nominees, to obtain or enforce proper protection for said inventions in any and all countries.

authorize and empower said corporation, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in my/our name, in any and all countries and to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said corporation or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

I coverant with Thomson Licensing, its successors, assigns, legal representatives, and nominees, that to the best of my knowledge the right, title and interest herein conveyed by me are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

to convey the same as herein expressed.

Signed at	<u>Kravies</u> Dat	te 30/59/2017
Inventor Name	Valerie Allie (Signature in Full – No Initials)	(Type or Print)
Post Office Address	5 rue de Penthievre, Saint Armel, FRANCE 35230	
1 st Witness	A Booysicia	M
	(Type or Print)	(Signature in Full — No Initials)

DECLARATION Docket No. PF140288

2 rd Witness	LAURENT. BLONDÉ	- 3 Contraction - 3 Contractio
And the second	(Type or Print)	(Signature in Full – No Initials)

RECORDED: 01/06/2017

As a below named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled

AUDIO EVENT DETECTION FOR AUTOMATIC PLENOPTIC VIDEO REFOCUSING

the specification of which was filed on September 28, 2016 as Application Serial No. 15/278664 and was amended on , or, if not identified here by filing date and serial number, is attached hereto.

The above-identified application was made or authorized to be made by me.

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment of not more than five (5) years, or both, under 18 USC 1001.

ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT

For valuable consideration received, I hereby sell, assign and transfer to Thomson Licensing, a corporation duly organized and existing under the laws of the country of France, its successors, and assigns my entire right, title and interest, for all countries in and to said inventions, and all the rights and privileges under any and all Letters Patent that may be granted therefor, and any divisions, continuations, reissues and extensions thereof.

I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightful declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for said inventions in any and all countries and for vesting title thereto in said corporation, its successors, assigns or nominees.

I agree that I will communicate to said corporation or its representatives any facts known to me respecting said inventions and when requested by said corporation and at its expense will testify in any legal proceedings, and generally do everything possible to aid said corporation, its successors, assigns and legal representatives or nominees, to obtain or enforce proper protection for said inventions in any and all countries.

l authorize and empower said corporation, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in my/our name, in any and all countries and to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like decurrent which may be required in any assignment of any assignment.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said corporation or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

I coverant with Thomson Licensing, its successors, assigns, legal representatives, and nominees, that to the best of my knowledge the right, title and interest herein conveyed by me are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Signed at	CESSON-SEVIENE (FRA	Date 30 Sept 2016
Inventor Name	Philippe Leyendecker (Type or Print)	(Signature in Full – No Initials)
Post Office Address	6 rue Paul Duplessis, Chateaugiron FRANC	E 35410
1st Witness	C Ribiore (Type or Print)	(Signature in Full - No Initials)
2 nd Witness	Guillanus TTARCHANO (Type or Print)	(Signature in Full – Na Initials)

REEL: 040869 FRAME: 0322